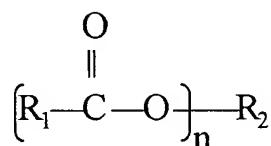


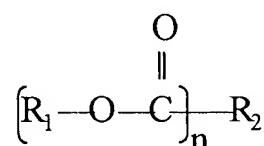
1 1. A gel composition, comprising:
2 an ester compound; and
3 a polymer compound selected from the group consisting of triblock copolymers, star
4 polymers, radial polymers, multi-block copolymers, and combinations thereof.

1 2. The gel composition of claim 1, further comprising a diblock copolymer,
2 wherein the gel composition is substantially free of mineral oils.

1 [[3. The gel composition of claim 1, wherein the ester is represented by the following formulas:



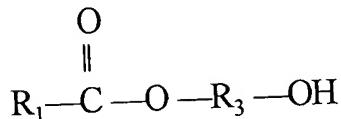
5 and



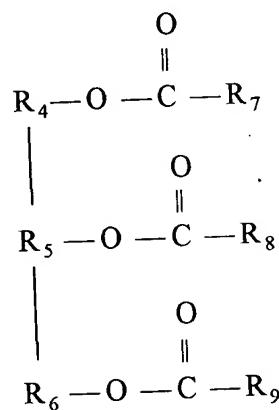
9
10 wherein n=1, 2, 3, and 4, and R₁ includes hydrogen, hydrocarbyl, phenyl, methoxyphenyl,
11 alkylphenyl, substituted alkyl, and substituted phenyl;

12 R₂ includes hydrogen, hydrocarbyl, phenyl, methoxyphenyl, alkylphenyl, substituted alkyl,
13 substituted phenyl, alkylene, phenylene, substituted alkylene, and substituted phenylene.]]

1 [14. The gel composition of claim 1, wherein the ester is represented by the following formula:



1 [5. The gel composition of claim 1, wherein the ester is represented by the following formula:



10 wherein R_4 , R_5 , and R_6 individually include alkylene, phenylene, substituted alkylene, or
11 substituted phenylene, and R_7 , R_8 and R_9 individually include hydrogen, hydrocarbyl, phenyl,
12 methoxyphenyl, alkylphenyl, substituted alkyl, and substituted phenyl.]]

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1 6. The gel composition of claim 1, wherein the ester is selected from the group consisting of
2 isopropyl myristate, isopropyl palmitate, C_{12} - C_{15} alkyl benzoate, octyl methoxycinnamate, octyl
3 dodecyl neopentanoate, propylene glycol dicaprylate/caprate, jojoba oil, and isostearyl neopentanoate.

- 1 7. — The gel composition of claim 1, wherein the polymer compound is present in the amount of
2 about 1% to about 40 % by weight.
- 1 8. — The gel composition of claim 2, wherein the diblock copolymer is selected from the group
2 consisting of styrene-ethylene/propylene copolymers, styrene-ethylene/butadiene copolymers, styrene-
3 isoprene copolymers, and styrene-butadiene copolymers.
- 1 9. — The gel composition of claim 1, wherein the triblock copolymer is selected from the group
2 consisting of styrene-ethylene/propylene-styrene copolymers, styrene-ethylene/butadiene-styrene
3 copolymers, styrene-isoprene-styrene copolymers, and styrene-butadiene-styrene copolymers.
- 1 10. — The gel composition of claim 2, wherein the diblock copolymer is hydrogenated.
- 1 11. — The gel composition of claim 1, wherein the triblock copolymer is hydrogenated.
- 1 12. — The gel composition of claim 1, wherein the triblock copolymer includes a grafted functional
2 group.
- 1 13. — The gel composition of claim 1, further comprising a suspended component.
- 1 14. — The gel composition of claim 13, further comprising a diblock copolymer.
- 1 15. — The gel composition of claim 13, wherein the suspended component is a solid selected from
2 the group consisting of organic materials, inorganic materials, organometallic materials,
3 phosphorescent materials, and fluorescent materials.

1 16. The gel composition of claim 13, wherein the suspended component is a solid selected from
2 the group consisting of zinc oxide, coated zinc oxide, surface-treated zinc oxide, titanium dioxide,
3 surface-treated titanium dioxide, graphite, explosives, air-sensitive chemicals, moisture-sensitive
4 chemicals, boron nitride, iron oxides, talc, mica, plastics, polymers, silica, silicon dioxide, aluminum
5 oxide, metal particles, antibacterials, antibiotics, anesthetics, glass, clays, gums, capsules containing
6 an active ingredient, starch, modified starch, other encapsulated materials, and combinations thereof.

1 17. The gel composition of claim 13, wherein the suspended component is a liquid selected from
2 the group consisting of water, water containing a water-soluble material, glycerin, propylene glycol,
3 butylene glycol, alcohols, acids, surfactants, emulsifiers, polyglycerols, ethers, polar esters, fluorinated
4 compounds, perfluoropolyethers, silicones, silicon-containing compounds, and combinations thereof.

1 18. The gel composition of claim 1, further comprising an active ingredient.

1 19. The gel composition of claim 18, wherein the active ingredient is selected from the group
2 consisting of sunscreens, antiperspirants, deodorants, perfumes, cosmetics, emollients, insect
3 repellants, pesticides, herbicides, fungicides, plasticizers, insecticides, and medicaments.

1 20. A gel composition, comprising:

2 — a compound selected from the group consisting of alcohols, ethers, naturally occurring fats
3 and oils, and combinations thereof; and
4 — a polymer compound selected from the group consisting of diblock copolymers, triblock
5 copolymers, star polymers, radial polymers, multi-block copolymers, and combinations thereof.

1 21. The gel composition of claim 20, wherein the alcohols include octyl dodecanol or isostearyl
2 alcohol.

1 22. The gel composition of claim 20, wherein the ethers include dicaryl ether.

1 23. — The gel composition of claim 20, wherein the naturally occurring fats and oils include linseed
2 oil, soybean oil, sunflower seed oil, corn oil, sesame oil, olive oil, castor oil, coconut oil, palm oil, and
3 peanut oil.

1 24. — A gel composition, comprising:
2 — a compound selected from the group consisting of esters, alcohols, ethers, naturally occurring
3 fats and oils, and combinations thereof; and
4 — a polymer compound selected from the group consisting of alkyl galactomannan,
5 polybutadiene, and combinations thereof.

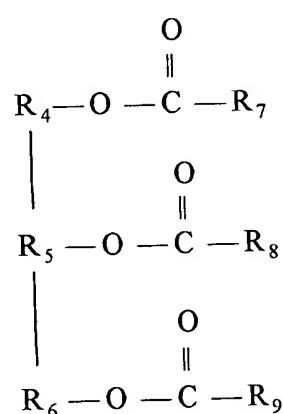
1 25. — A method of making a gel composition, comprising:
2 — mixing an ester compound with a polymer compound selected from the group consisting of
3 triblock copolymers, star polymers, radial polymers, multi-block copolymers, and combinations
4 thereof;
5 — heating the mixture;
6 — agitating the mixture until the mixture becomes homogeneous; and
7 — cooling the mixture.

1 26. — A method of making a gel composition, comprising:
2 — mixing an alcohol, an ether or a naturally occurring fat or oil with a polymer compound
3 selected from the group consisting of diblock copolymers, triblock copolymers, star polymers, radial
4 polymers, multi-block copolymers, and combinations thereof;
5 — heating the mixture;
6 — agitating the mixture until the mixture becomes homogeneous; and
7 — cooling the mixture.

1 27. — A method of making a gel composition, comprising:

- 1 ~~mixing an ester, an alcohol, an ether or a naturally occurring fat or oil with alkyl~~
- 2 ~~galactomannan or polybutadiene;~~
- 3 ~~heating the mixture;~~
- 4 ~~agitating the mixture until the mixture becomes homogeneous, and~~
- 5 ~~cooling the mixture.~~

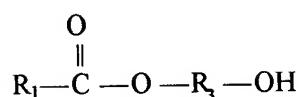
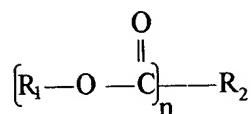
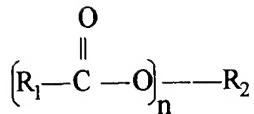
- 1 28. (New) A gel composition, comprising:
 - 2 an ester compound; and
 - 3 a polymer compound having at least one rigid block selected from the group consisting of polystyrene, polyethylene, polyvinylchloride, and phenolics and one elastic block selected from the group consisting of ethylene/butadiene copolymers, polyisoprene, polybutadiene, ethylene/propylene copolymers, ethylene-propylene/diene copolymers, wherein the polymer is selected from the group consisting of triblock copolymers, star polymers, radial polymers, multi-block copolymers, and combinations thereof,
 - 4 wherein the gel composition is substantially free of mineral oils;
 - 5 wherein the ester is represented by one of the following formulas:



20 or

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10 wherein n=1, 2, 3, and 4, and

11 R_1 includes hydrogen, hydrocarbyl, phenyl, methoxyphenyl, alkylphenyl, substituted
12 alkyl, and substituted phenyl; R_2 includes hydrogen, hydrocarbyl, phenyl, methoxyphenyl, alkylphenyl,
13 substituted alkyl, substituted phenyl, alkylene, phenylene, substituted alkylene, and substituted
14 phenylene, and R_3 includes alkylene, phenylene, substituted alkylene, or substituted phenylene, and
15 wherein R_4 , R_5 , and R_6 individually include alkylene, phenylene, substituted alkylene, or
16 substituted phenylene, and R_7 , R_8 and R_9 individually include hydrogen, hydrocarbyl, phenyl,
17 methoxyphenyl, alkylphenyl, substituted alkyl, and substituted phenyl.

1 29. (New) The gel composition of claim 28, further comprising a diblock copolymer,
2 wherein the gel composition is substantially free of mineral oils.

1 30. (New) The gel composition of claim 28, wherein the ester is selected from the group
2 consisting of isopropyl myristate, isopropyl palmitate, C_{12} - C_{15} alkyl benzoate, octyl
3 methoxycinnamate, octyl dodecyl neopentanoate, propylene glycol dicaprylate/caprate, jojoba oil, and
4 isostearyl neopentanoate.

1 31. (New) The gel composition of claim 28, wherein the polymer compound is present in the
2 amount of about 1% to about 40 % by weight.

1 32. (New) The gel composition of claim 29, wherein the diblock copolymer is selected from the
2 group consisting of styrene-ethylene/propylene copolymers, styrene-ethylene/butadiene copolymers,
3 styrene-isoprene copolymers, and styrene-butadiene copolymers.

1 33. (New) The gel composition of claim 28, wherein the triblock copolymer is selected from the
2 group consisting of styrene-ethylene/propylene-styrene copolymers,
3 styrene-ethylene/butadiene-styrene copolymers, styrene-isoprene-styrene copolymers, and
4 styrene-butadiene-styrene copolymers.

1 34. (New) The gel composition of claim 29, wherein the diblock copolymer is hydrogenated.

1 35. (New) The gel composition of claim 28, wherein the triblock copolymer is hydrogenated.

1 36. (New) The gel composition of claim 28, wherein the triblock copolymer includes a grafted
2 functional group.

1 37. (New) The gel composition of claim 28, further comprising a suspended component.

1 38. (New) The gel composition of claim 37, further comprising a diblock copolymer.

1 39. (New) The gel composition of claim 37, wherein the suspended component is a solid selected
2 from the group consisting of organic materials, inorganic materials, organometallic materials,
3 phosphorescent materials, and fluorescent materials.

1 40. (New) The gel composition of claim 37, wherein the suspended component is a solid selected
2 from the group consisting of zinc oxide, coated zinc oxide, surface-treated zinc oxide, titanium
3 dioxide, surface-treated titanium dioxide, graphite, explosives, air-sensitive chemicals,

1 moisture-sensitive chemicals, boron nitride, iron oxides, talc, mica, plastics, polymers, silica, silicon
2 dioxide, aluminum oxide, metal particles, antibacterials, antibiotics, anesthetics, glass, clays, gums,
3 capsules containing an active ingredient, starch, modified starch, other encapsulated materials, and
4 combinations thereof.

1 41. (New) The gel composition of claim 37, wherein the suspended component is a liquid selected
2 from the group consisting of water, water containing a water-soluble material, glycerin, propylene
3 glycol, butylene glycol, alcohols, acids, surfactants, emulsifiers, polyglycerols, ethers, polar esters,
4 fluorinated compounds, perfluoropolyethers, silicones, silicon-containing compounds, and
5 combinations thereof.

1 42. (New) The gel composition of claim 28, further comprising an active ingredient.

1 43. (New) The gel composition of claim 42, wherein the active ingredient is selected from the
2 group consisting of sunscreens, antiperspirants, deodorants, perfumes, cosmetics, emollients, insect
3 repellants, pesticides, herbicides, fungicides, plasticizers, insecticides, and medicaments.

1 44. (New) A gel composition, comprising:

2 a compound selected from the group consisting of alcohols, ethers, naturally occurring fats
3 and oils, and combinations thereof; and

4 a polymer compound selected from the group consisting of diblock copolymers, triblock
5 copolymers, star polymers, radial polymers, multi-block copolymers, and combinations thereof,
6 wherein the polymer compound has at least one rigid block selected from the group consisting
7 of polystyrene, polyethylene, polyvinylchloride, and phenolics and one elastic block selected from the
8 group consisting of ethylene/butadiene copolymers, polyisoprene, polybutadiene, ethylene/propylene
9 copolymers, ethylene-propylene/diene copolymers.

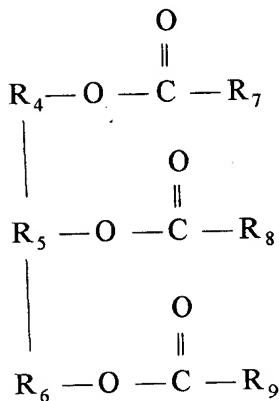
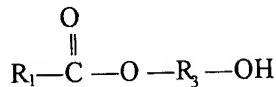
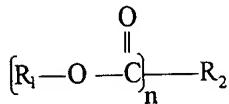
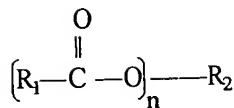
1 45. (New) The gel composition of claim 44, wherein the alcohols include octyl dodecanol or
2 isostearyl alcohol.

1 46. (New) The gel composition of claim 44, wherein the ethers include dicarylyl ether.

1 47. (New) A gel composition, comprising:
2 a compound selected from the group consisting of esters, alcohols, ethers, naturally occurring
3 fats and oils, and combinations thereof; and
4 a polymer compound selected from the group consisting of alkyl galactomannan,
5 polybutadiene, and combinations thereof.

1 48. (New) A method of making a gel composition, comprising:
2 mixing an ester compound with a polymer compound having at least one rigid block selected
3 from the group consisting of polystyrene, polyethylene, polyvinylchloride, and phenolics and one
4 elastic block selected from the group consisting of ethylene/butadiene copolymers, polyisoprene,
5 polybutadiene, ethylene/propylene copolymers, ethylene-propylene/diene copolymers, wherein the
6 polymer is selected from the group consisting of triblock copolymers, star polymers, radial polymers,
7 multi-block copolymers, and combinations thereof,
8 heating the mixture;
9 agitating the mixture until the mixture becomes homogeneous; and
10 cooling the mixture;
11 wherein the gel composition is substantially free of mineral oils;
12 wherein the ester is represented by one of the following formulas:

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14
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or

wherein n=1, 2, 3, and 4, and

R₁ includes hydrogen, hydrocarbyl, phenyl, methoxyphenyl, alkylphenyl, substituted alkyl, and substituted phenyl; R₂ includes hydrogen, hydrocarbyl, phenyl, methoxyphenyl, alkylphenyl, substituted alkyl, substituted phenyl, alkylene, phenylene, substituted alkylene, and substituted phenylene, and R₃ includes alkylene, phenylene, substituted alkylene, or substituted phenylene, and wherein R₄, R₅, and R₆ individually include alkylene, phenylene, substituted alkylene, or substituted phenylene, and R₇, R₈ and R₉ individually include hydrogen, hydrocarbyl, phenyl, methoxyphenyl, alkylphenyl, substituted alkyl, and substituted phenyl.

1 49. (New) A method of making a gel composition, comprising:

2 mixing an alcohol, an ether or a naturally occurring fat or oil or combinations thereof with a
3 polymer compound selected from the group consisting of diblock copolymers, triblock copolymers,
4 star polymers, radial polymers, multi-block copolymers, and combinations thereof, wherein the
5 polymer compound has at least one rigid block selected from the group consisting of polystyrene,
6 polyethylene, polyvinylchloride, and phenolics and one elastic block selected from the group
7 consisting of ethylene/butadiene copolymers, polyisoprene, polybutadiene, ethylene/propylene
8 copolymers, ethylene-propylene/diene copolymers

9 heating the mixture;

10 agitating the mixture until the mixture becomes homogeneous; and

11 cooling the mixture.

1 50. (New) A method of making a gel composition, comprising:

2 mixing an ester, an alcohol, an ether or a naturally occurring fat or oil with alkyl
3 galactomannan or polybutadiene,

4 heating the mixture;

5 agitating the mixture until the mixture becomes homogeneous; and

 cooling the mixture.